

SSHRC Wants to Receive More Applications From U of A

Some 25 members of SSHRC recently spent a day and a half at the University of Alberta. Among them were the new president Paule Leduc and Ralph Heintzman, director-general of the Program

at the University of Alberta brief to SSHRC emphasized such things as the need for SSHRC to maintain its basic commitment to the humanities, social sciences, and kindred fields, while trying to be relevant to technological and social changes in Canada; the need both to stress program grants and to restructure these along the NSERC

lines of support for researchers with a proven "track record", while making provision for assistance to beginning and re-entering scholars; the need to re-examine funding for the fine arts which are too often ignored by major granting agencies; and the need to assist SSHRC in arguing for increased funding for its domain.

SSHRC members were very impressed with the U of A campus, says Bob Busch, Associate Vice-President (Research). However, our applications to SSHRC continue to be disappointingly low in number in spite of a relatively high success rate. The end result, Dr. Busch points out, is that the U of A ranks

11th in SSHRC funding when its overall size should place it among the top five. While applications to SSHRC are up some 25 to 30 percent across the country and therefore, are straining SSHRC's administrative and funding ability, SSHRC would nevertheless like to see many more U of A applications, Dr. Busch says. □

'Criminalization of Illness' Subject of Public Forum

A public forum on "Criminalization of Illness" is scheduled for 29 October in 207 Law Centre.

The main speaker is Janice Dickin McGinnis of the University of Calgary. Her talk bears the title "The Criminalization of Sickness, Venereal Disease and AIDS: Historical and Legal Perspectives." After her address (it starts at 9 a.m.), there will be a response from a five-member panel.

From 1:30 to 3:30 p.m. there will be short presentations from others in the community; Dr. McGinnis will respond to some of those presentations.

Sponsors of the forum include the (U of A) Centre for Criminological Research (432-4659), the Department of History, the Faculty of Law, the Edmonton Division of the University of Calgary School of Social Work, and the Solicitor General of Alberta. □

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University of Alberta

FOLIO

University of Alberta

27 October 1988

Leading Critic of Genetic Engineering Goes on 'Canada, the World and the Future' Firing Line

Speakers for the "Canada, the World and the Future" conference include Jeremy Rifkin, Malcolm Brown, Ginette Rodger and Ian Green.

Mr. Rifkin is director of the Foundation on Economic Trends (Washington, D.C.), a seven-person lobbying group that monitors the environmental, social, economic, and ethical effects of new scientific trends.

An author, activist and philosopher, he is regarded in many quarters as "America's social conscience" in the world of high technology and genetic engineering. His critics, however, refer to him as a menace to progress.

In 1986, the *National Journal*, the foremost public policy journal in the United States, selected Mr. Rifkin as one of 150 people in that country that have the most influence in shaping federal government policy.

Mr. Rifkin is the keynote speaker for the conference's opening session, "Biotechnology: Utopia or Brave New World" (Tuesday, 8 November, 8 p.m.).

Lionel McLeod, president of the Alberta Heritage Foundation for Medical Research, will chair the session.

Malcolm Brown is a professor of economics at the University of

Calgary. In addition to his teaching career, he has worked in various research capacities for Statistics Canada, the Dalhousie Institute of Public Affairs, the Ontario Economic Council, and Alberta Social Services and Community Health.

Professor Brown specializes in health economics and intergovernmental fiscal relations.

He joins Mrs. Rodger and Mr. Green for a discussion of "Government Health Policies" (9 November, 2 to 4:30 p.m.). Lou Hyndman, chairman, Premier's Commission on Future Health Care for Albertans, will moderate the proceedings.

Ginette Rodger is executive director of the Canadian Nurses Association. She is a member of the Medical Research Council of Canada and a member of the editorial board of *Journal of Advanced Nursing* (England).

In 1984, the Ontario Public Health Association accorded her honorary life membership in recognition of her contribution to public health in Canada.

Ian Green is assistant deputy minister of the Policy, Communications and Information Branch, Department of National Health and Welfare.

A graduate of the University of Ottawa, he is the former assistant

under-secretary of State (Corporate Policy and Public Affairs Branch). He also served for five years in the Privy Council Office, latterly as director, Machinery of Government.

The Office of the Vice-President (Research) and the Faculty of Medicine are sponsoring the conference. It runs from 8 through 11 November in Bernard Snell Hall, University of Alberta Hospitals. Faculty, students and members of the public are invited to attend. Admission is free. □

Did you know...

\$70 helps the Strathcona Shelter Society to provide an abused woman and her children with one day of food, lodging and understanding.



Please give generously to the United Way Campaign. The ONECAUSE That Helps So Many.

Folio, 27 October 1988

Use of Permanent-Color Pens Drives Dr. Fungi Round the Bend

People who use permanent-color pens on overhead projector acetate rolls are driving their colleagues mad, says Derek Patten, Technical Services' supervisor of audio-visual equipment.

It seems that "permanent color" is just that—permanent. It won't wash off with water, and using cleaning fluid ruins the acetate. The only way to get rid of the permanently marked sections of the roll is to cut them out.

It doesn't need a great brain to figure out that this makes the roll shorter. Too short, in fact, to last through a teaching day.

An acetate roll starts out at an adequate 50 feet. But after half a dozen instructors have diagrammed their theories on it in permanent ink, it soon may be reduced by half.

That's when the final section of Dr. Fungi's brilliant lecture on autonomous potentials is likely to be ruined. The acetate has run out—and now he can't illustrate the concluding points of his talk.

Then—and that's even worse, as

far as Mr. Patten is concerned—Dr. Fungi gets on the telephone to Tech Services and roars at whoever picks up the phone.

"Really, I love profs," Mr. Patten sighs, "but I wish they'd try out a pen before using it."

Make a small mark on the acetate and see if a little spit on a finger takes it off, he suggests. If it doesn't, that's the wrong kind of pen. Don't use it, he begs.

The whole problem comes up because manufacturers put permanent ink and water soluble ink into the same pen bodies. To

find out which is which, you have to pick up the pen and decipher the small print in three languages. At that point, you may or may not notice that the manufacturer has kindly built in a small color clue—but you must remember which clue goes with which pen. (Staedtler's white-bodied pens have the soluble ink. Schwan-Stabilo put a grey clip on theirs.)

Manufacturers' displays are confusing, too. In the Bookstore, a display of pens is labelled by the maker, "For overhead projectors". But be careful! Pens on one side

have soluble ink. On the other side, they have permanent.

It would be a whole lot easier to tell the difference if permanent ink came only in fat-bodied pens and soluble ink in thin-bodied ones.

But until that happy day arrives, maybe marking your water soluble pens with bandaid would help solve the problem. When you take out a pen to write on the acetate, if you can't feel the bandaid, you've got the wrong pen. Pick another.

Dr. Fungi and colleagues would be delighted—and so would Mr. Patten. □

Wah Takes Up Writer-in-Residence Appointment

Fred Wah is the University of Alberta's 1988-89 Writer-in-Residence.

Mr. Wah is the author of thirteen books of poetry, one of which, *Waiting for Saskatchewan*, won the Governor General's Award for Poetry in 1985. His most recent book is *Music at the Heart of*

Thinking, published by Red Deer College Press in 1987. During his time at the University of Alberta, Mr. Wah will be working on several new collections of poetry and prose.

A founding editor of the poetry newsletter *TISH* in the early 1960s in Vancouver, and of the recent electronic literary magazine *SwiftCurrent*, he has also been an editor of a number of magazines in the U.S. and Canada.

Born in Swift Current in 1939, Mr. Wah has lived most of his life in southeastern British Columbia (he has taught at David Thompson University Centre and at Selkirk College).

Mr. Wah has office hours in the English Department; he is available (in 3-73 Humanities Centre) for consultation with the public.

Funding for this year's writer-in-residency was provided

by the Canada Council, the Alberta Foundation for the Literary Arts, Alberta Culture, the U of A Alma Mater Fund, and the English Department. □

3M Teaching Fellowship for Kuspira

As *Folio* was going to press, it was learned that John Kuspira (Genetics) has been awarded a 1988 3M Teaching Fellowship.

Dr. Kuspira, chosen from a record total of 113 nominations from across Canada, is one of ten Fellows awarded the prize for excellence in teaching and for providing leadership to their university colleagues.

Further details in a forthcoming *Folio*. □

'Most Prolific Tanzanian Academician' Paying a Visit

Issa Shivji of the University of Dar es Salaam, Tanzania, will be visiting campus 1 to 3 November.

Tanzania's first Professor of Law, and winner of his university's Silver Jubilee Award for 'Most Prolific Tanzanian Academician', Professor Shivji is perhaps the most eminent academic his country has produced. An advocate of the High Court of Appeal of Tanzania and activist in several African and international legal bodies, Professor Shivji is equally well-known for his writings on modern Tanzanian society and history. His book *Class Struggles in Tanzania* is regarded as a classic in its field.

Professor Shivji will be giving three talks here: on the politics of liberalization in Tanzania

1983-1988, law and human rights in southern and eastern Africa, and the state and working people in Tanzania.

His visit, arranged by the Department of Sociology, has aroused wide interest on campus, and co-sponsorship has kindly been provided by the Departments of History, Political Science, Educational Foundations and Rural Economy, the Area Studies Committee (Africa/South Asia), CIDA, and the offices of the Dean of Arts, the Dean of Law, and the Associate Vice-President for International Affairs.

For times of Dr. Shivji's talks consult *Folio* listings or call Dei Sayer (Sociology) at 432-4524. □

FOLIO

Volume Twenty-six
Number Thirteen

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Public Affairs produces *Folio*
on a regular basis for the
staff and other interested
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University
of
Alberta

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ISSN 0015-5764
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Lougheed Scholarships Awarded

On 19 October, the most prestigious undergraduate scholarships on campus were awarded to nine third-year students.

Former Premier Peter Lougheed, whom the scholarships are named, met the winners individually and presented each with a plaque.

Lougheed Scholarships are awarded to students who are entering the last two years of a degree program and who show superior academic achievement and community/leadership activities. The students are nominated by their home Faculty and chosen by a selection committee. The scholarships, awarded annually and valued at \$5,000, are renewable for the final year of the degree program, subject to satisfactory academic standing.

The Lougheed Scholars for 1988-89 (pictured with Vice-President Allan Warrack (left), Mr. Lougheed and Board of Governors Chairman John Schlosser) are (from left): Kari Anderson (Education), Ming Dai (Business), Jill Anderson (Rehabilitation Medicine), Barbara



Photo/University of Alberta/CPA

Glod (Law), Carol Kassian (Physical Education and Recreation), Suresh Mustapha (Science), Gregory Huyer (Science), Susan Petryk (Home Economics), and David Tupper (Arts).

Lougheed Scholars from 1987-88 who had their scholarships renewed are: Sheilagh Campbell (Education), Carmen Ditzler (Physical Education and Recreation), Karen Friskney (Rehabilitation Medicine), Kathlyn Haugen (Faculté Saint-Jean), David Howarth (Arts), Simon Renouf (Law), Jennifer Trumble (Engineering), and Susan Weber (Home Economics). □

Professional Development for APOs Information Sessions

OFFICE OF BUDGET AND STATISTICS

The Office of Budget and Statistics plays a key role in the planning, preparation, and maintenance of the University Operating Budget. As well, the office supports University decision-makers by providing analyses and historical information related to many aspects of University operations. Peter Watts (Director), Bill Cairns, and Cecilia Vasquez will present an overview of the operations of the office, and the services that it provides.

DATE: **Wednesday, November 9, 1988**
TIME: 10:30 a.m. to 12:00 noon
PLACE: Council Chamber, University Hall

While these sessions are directed at APOs, other interested staff are welcome, space permitting.

Pre-registration not required.

For more information, contact:
Mrs. Eva M. Cherniavsky
Administrative Officer (Academic)
3-13 University Hall
(ext. 4588)

Buy a Coffee Button and Help United Way

Buying a United Way Coffee Button will make you feel good twice.

First you'll enjoy sipping coffee all day on Coffee Day, Friday, 4 November.

And then you'll enjoy the good feeling that comes from having contributed to the best cause in town—the United Way.

Coffee Day is a United Way fund-raising program.

As long as you're wearing your United Way Coffee Button, participating restaurants, cafeterias and coffee shops throughout Edmonton will gladly pour you all the coffee you can drink on Coffee Day and not ask you for a cent. You'll know who's participating because they'll display a United Way Coffee Day poster.

Coffee Buttons are sold in advance of Coffee Day, so you'll need to buy yours soon. It costs just \$1 and gets you all the coffee you can handle on Coffee Day, from as many participating outlets as you have time to visit.

Coffee Button sellers will soon be out across campus—and across the city, too. You'll have no trouble recognizing them. They'll wear a smile, of course, and probably a Coffee Day sash, and they'll be carrying a tray showing a United Way Poster and filled with Coffee Day Buttons.

Coffee Buttons will also be on sale at participating outlets.

Give \$1 soon for a Coffee Button and help the United Way—the one cause that helps so many. □



Activities

Norbert Morgenstern (University Professor of Civil Engineering) was elected president of the Canadian Geotechnical Society at the 41st Canadian Geotechnical Conference held recently in Kitchener, Ontario. The society serves the needs of its more than 1,200 members through

its Divisions of Soil Mechanics and Foundations, Rock Mechanics, Engineering Geology and Cold Regions Geotechnology and through the activities of fifteen local sections across the country. . . Just back from Nova Scotia is **Myer Horowitz** (President). He delivered the DeWolfe Lecture at St. Francis Xavier University in Antigonish on 11 October and at Acadia University in Wolfville on 12 October. The topic was "Teacher Education: Retrospective and Prospective." On 13 October, his participation in the Conference of the Nova Scotia School Administrators Association consisted of service on a panel on "Teacher Education" and the delivery of an address on "The Administrator as Teacher Educator" . . . **Murray Hawkins** (Rural Economy) will be presented with the Distinguished Alumni Award sponsored by the College of Agriculture Alumni Association at Ohio State University. Awards night is 4 November in Columbus.

Letters

Excellence and Equality

■ While the question of employment equity has not been resolved in the private sector, the Abella Commission on Equality in Employment (1984) of the Canadian government has stated that: "Equality in employment means that no one is denied opportunities for reasons that have nothing to do with inherent ability. It means equal access free from arbitrary obstructions. Discrimination means that an arbitrary barrier stands between a person's ability and his or her opportunity to demonstrate it. It is equally defined as equal freedom from discrimination."

The University of Alberta and any other employer can certainly uphold the principles of merit and excellence while ensuring each person is free from discrimination. In fact, there is legislation in the form of the *Canadian Human Rights Act* (Bill C-25, Section 15 (1)) and the *Charter of Rights* (Section 15 (2)), which specifically permits the implementation of special programs for any group of persons or individuals who are disadvantaged on the basis of race, national or ethnic group, color, religion, age, sex, marital status or physical handicap. Any measures taken to address the needs of people who have been disadvantaged should not be seen as giving 'an invidious advantage to those with specific inherited characteristics'. Instead, these measures can be seen as allowing people the opportunity to compete fairly.

Discrimination is not simply personal prejudices in hiring but a disease that systemically pervades our social system. The disease is a symptom of a faulty social structure and misplaced value systems. Discrimination is inadequate child care for women, lack of ramps, transportation, physical attendant care for the disabled, inflexible regulations and unjustifiable requirements in job descriptions. Minorities, women and the disabled are disadvantaged by the education system, the political-economic system and the collective ignorance of the people in power. In order to achieve any fair representation of people in employment the issues of inequality in all levels of society must be addressed. Excellence in academic studies and job performance is a result of equality and not a replacement for it. The Fraser Institute has suggested in its text on Affirmative Action (1982) that: "discrimination is nothing more than the expression of a preference; and in that neutral sense, without assessing the consequences of the behavior, the right to discriminate is a desirable feature of free societies". If this is true, I should hope that the University of Alberta implements enough measures to prevent those 'free' people in power from arbitrary discrimination against the rest of society.

Tanis Doe, Visiting Student

Smoker Sees 'Nothing Inappropriate' in New Regulations

■ I wish to respond to my colleague J.W. Osborn's eloquent dissertation in support of a lost cause—namely, smoker's rights ("A Freedom in Ashes," 8 September).

As a moderate cigar addict I might be expected to agree that anti-smoking legislation is an encroachment upon the freedom of those who profess a dependency upon "The Lethal Weed". On the contrary, however, I see nothing inappropriate in such regulations because the majority of people appear to be non-smokers and, according to basic democratic principles, their interests must be served. The incidence of tobacco allergy, alone, should justify the new restrictions.

Even though "passive" exposure to tobacco smoke may have not been proven as a health hazard, it is reasonable to adopt a preventive attitude until definitive information on the subject becomes available. It is not logical to resign ourselves to the idea

of permitting this avoidable pollution to augment the other man-made contaminants which pervade our environment. How much do we really know about the synergic effects of mixed pollutants? From a common-sense standpoint, regardless of supportive scientific data, it is totally unlikely that constant exposure to the smoke of any combustible material could be entirely harmless. The University cannot be justly criticized for formulating a preventive policy in the interest of the well-being of its employees. The only side effect that I visualize as being associated with this policy is that the smokers themselves will gain the obvious benefit of reduced indulgence. Regardless of how the sentiment may be perceived, perhaps those who support the new restrictions are prepared to be identified as "their brothers' keepers" in the interest of a healthier working environment for everyone.

The suggestion that "... the new crusaders are successfully destroying freedom" is unfair to those health activists who lobby for better health conditions for the community. Health practitioners should welcome their efforts to fill the voids left in health care legislation by neglectful politicians.

With regard to the other forms of social oppression which Dr. Osborn associates with "the new crusaders", I am quite sure that I speak for a significant number of Canadians (and, presumably, Albertans) when I say that in the hope of contributing towards a more judiciously structured society I am prepared to forfeit my personal right to kill unborn infants, to risk death by ignoring the seat-belt laws, to shop on Sunday, to read unnecessarily explicit literature and to allow my pets to defecate on neighbors' lawns. Rather than regarding the legislation related to these issues as restricting freedom, one should see them as attempts (albeit imperfect) to move towards an organized society in which reasonable boundaries exist to maintain human behaviour within limits which are tolerable for all. Our choices are to support an "un-organized" society where the actions of uncaring individuals infringe upon the welfare of others or to opt for an organized, structured society where disadvantages for its members are anticipated and legislated against. The "collective interest" principle is neither socialistic nor totalitarian but is an essential component of that fragile and faulty system called democracy.

I do not agree that passive exposure to tobacco smoke can be compared with the fluoridation issue. To do so is like comparing the possession of handguns to the presence of aspirin in the bathroom cabinet. An erudite philosopher can formulate a credible defence of any issue in the universe, but significant impact is created only by those philosophies which conform to the voluntary restraints imposed by common sense. Many anti-fluoridationists have published convincing papers on the subject which, on close scrutiny, prove to be epidemiologically unsound.


The economics of controlling pollution, including air pollution, particularly in its relation to health issues, will ultimately ensure that the will of environmentalists prevails. Prevention will eventually be recognized as being more economically expedient than remedial measures instituted after the fact. Preventive hygiene is the real issue at stake here.

Social critics, among whose amateur ranks I would readily include myself, are usually reluctant to admit that controversial legislation which involves personal issues can be of some universal benefit to the whole population. Occasionally, however, laws intended for some other purpose result in conditions which afford us protection from our own destructive behaviour. In our eagerness to debate the indefensible, let us not overlook the unchallengeable benefits which will ultimately accrue from this reasonable regulation. "1984" slipped quietly away a few years ago and with it, one would hope, went the Orwellian view of legislators and state power.

D.F. Mulcahy,
Faculty of Dentistry

Opinion


The Greatest Threat in a Nuclear World: Ignorance

 John J. Mitchell



"Human history becomes more and more a race between education and catastrophe." H.G. Wells

Nuclear war is the greatest peril facing modern civilization. And, as much as we try to deny it, nuclear war is possible. Our political leaders have warned us; our military leaders have warned us; and our spiritual leaders have warned us.

Unfortunately, our universities are not preparing the leaders of tomorrow to meet this challenge. University curricula and university professors simply do not confront the issue of nuclear war; therefore, students who attend even the best universities are, in a very real sense, ignorant about what would happen to their families, their society, and to modern civilization in a nuclear war.

University students, of course, know *about* nuclear weapons, but their understanding of the death-on-earth they will create if  re ever launched in anger, is superficial and childlike.

During the past 15 years I have lectured to, spoken with, and interviewed thousands of university students about nuclear war. I have discovered that the vast percentage are remarkably naive about this topic, which I find especially disturbing because nuclear war is the only means by which North American civilization could be brought to a halt in this century. Ignorance about nuclear weapons is ignorance of the most profound nature, and it is rendered even more profound when it exists among the educated elite who will be tomorrow's politicians, educators and military leaders.

University students do not in any realistic sense comprehend the brutal devastation rendered by nuclear weapons—they simply do not fathom the manner in which their cities would be charred and incinerated by nuclear missiles. Neither do they comprehend that the *survivors* of a nuclear war will be too emotionally traumatized to  after themselves, much less  parents or their children. University students tend to see themselves after a nuclear war much as they now are: healthy and

energetic but having to "make-do" in a war-torn environment. The parallel (in their mind) is valiant Londoners re-building after a Nazi bombing run.

Never mind that they don't understand that the Soviet-U.S. submarine strike force, unto itself, could destroy every city in Western civilization. Never mind that they are unaware that top computer experts within the Soviet Union and the United States have openly testified that nuclear war could be triggered by computer error. No, their ignorance of nuclear weapons is far more fundamental: university students do not *genuinely* comprehend even the basics. That is, how nuclear weapons obliterate physical culture and how they mangle the soul of those humans who survive to rummage through the obliteration.

Even students from Toronto do not seem aware of the fact that a twenty megaton nuclear bomb detonated over Toronto would crush, incinerate, or vaporize every living creature within a five-mile radius of the blast. Most of the Torontonians living within a 20-mile radius of the blast would die within seconds (if unprotected) or within hours (if protected by their home). If the bomb exploded on the ground, countless others who live miles beyond the reach of the initial blast would be sentenced to a lingering death as radioactive fallout drifted down onto the water and food supplies.

Brutal as this reads, it most likely would be even worse because Toronto could be hit by three, four or even five nuclear missiles. The Soviets (like the Americans) have far more missiles than targets at which to fire them. The United States is presently building 5,000 Cruise missiles, each *one* of which has 15 times the explosive power of the bomb which destroyed Hiroshima.

Among university students ignorance about the *psychological* devastation survivors of a nuclear attack would undergo is greater even than their ignorance of physical devastation. University students are naive (ignorant) enough to assume that they will somehow be able to scrounge a livelihood after a nuclear exchange. Scientists know from their studies of Hiroshima and Nagasaki

survivors, however, that a nuclear attack destroys the psychological functioning of the people it does not kill. Normal everyday skills (such as thinking about the consequences of your actions, or solving simple problems) do not operate. Love and anger disappear, replaced with zombie-like numbness. Victims have no sense of overcoming their suffering—they see only empty outlines of a vacant future. When horror is overpowering, as it is in nuclear war, the mind simply shuts down so that more horror cannot enter.

This portrayal of survivors is based upon first-hand observations after the "mini" nuclear explosions of 1945. These are not merely the conclusions of peacenik psychologists. Medical doctors throughout the world, whose sacred oath is to preserve and protect life, are in virtually unanimous agreement on this. M. Vartanyan, deputy director of the Research Center on Mental Health, U.S.S.R. Academy of Medical Sciences, puts it this way: "Let us assume . . . that approximately 20-25 percent of the urban population of European countries would survive a nuclear attack. *About 20 percent of the survivors would be so incapacitated by psychological and pathopsychological conditions that they would be unable to care for themselves or others.*"

Cataclysmic physical destruction, coupled with the death of one's family and loved ones, will simply shatter the emotional fabric of those who remain. Robert Lifton,

perhaps the leading authority in the world on this topic, puts it this way: "Survivors will remain in a deadened state, either alone or among others like themselves, largely without hope and vaguely aware that everyone and everything that once mattered to them has been destroyed . . . Virtually no survivors will be able to enact the most fundamental of all human rituals, burying their own dead."

For the most part, university students possess no knowledge whatsoever of the psychic debilitation survivors of a nuclear exchange will experience. This lack of knowledge inclines them to honor their youthful belief that everything will work out in the long haul. Nothing could be further from the truth. Their naivete makes it easier for them to insulate themselves against nuclear horror and to innocently pursue their private ambitions. Unfortunately, it may contribute not only to their death, but to yours and mine as well. For, you see, virtually all nuclear weapons in the world today are under the direct control of university graduates. What they fail to learn in university may have grave consequences.*□

**Ed. note: Dr. Mitchell, a member of the Department of Educational Psychology, belongs to Psychologists for Social Responsibility (Canada) and Psychologists for Social Responsibility (U.S.A.). His article first appeared in The Globe and Mail on 14 October.*

Fraser Mustard Here on Behalf of 'Science, Technology, Society' Series

James Fraser Mustard, president of the Canadian Institute for Advanced Research and professor of pathology at McMaster University, will be speaking in the Science, Technology and Society Lecture series taking place on campus today (27 October).

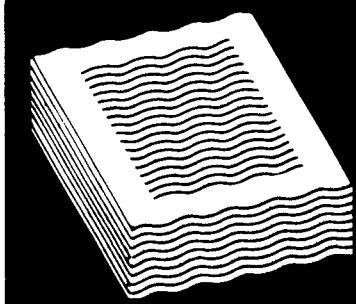
Dr. Mustard has received international recognition for his cardiovascular research and contributions to medical education in Canada and internationally. His many awards include the Gairdner Award for Medical Research, the James F. Mitchell Award for heart

and vascular research, the Izaak Walton Killam Memorial Prize in Medicine and Robert P. Grant Medal of the International Society on Thrombosis and Haemostasis.

He is a member of the Prime Minister's National Advisory Board for Science and Technology and became an Officer of the Order of Canada in 1986.

He will speak on the critical gap in Canadian research structures for performing long-term, applied research and its ultimate effect on the country's prosperity (1-09 Business Building, 4 p.m.)□

Currents



Installation of United Church Chaplain

Rev. Daniel Bogert-O'Brien will be installed as United Church Chaplain, University of Alberta, on 30 October. The ceremony, in Garneau United Church, 11148 84 Ave, starts at 7:30 p.m. Rev. Dr. William Phipps, conference officer for the United Church in Alberta, will preside.

The installation is open to the public; a reception will follow.

Mac Men and Women Meeting

The Macintosh Owners and Users Society of Edmonton (MOUSE) will hold their regular monthly meeting Tuesday, 1 November, at 7:30 p.m. in TL-12 Tory Building. Guest speaker Peter Johnson will demonstrate computer viruses and their prevention.

David Walker (855 General Services Building, telephone 432-4413, 436-0618) is MOUSE secretary.

Research in Rehabilitation

The Research in Rehabilitation Conference will be held in the Walter Mackenzie Health Sciences Centre on 5 and 6 November.

Keynote speaker John V. Basmajian, professor emeritus, McMaster University, will speak on "Breaking the Barriers of Stroke Research and Therapy" (6 November, 8:45 a.m., room 2F1.04).

There is a registration fee for the conference. For further information, telephone S. Kumar, Department of Physical Therapy, 432-5979.

Capital Equipment Purchases

A program has been developed to provide the carry-over of unspent capital equipment funds into the next budget year. This carry-over will be limited to the lesser of fifteen percent of the departmental capital equipment budget or \$50,000. Where the balance of unexpended funds is sufficient, commitments incurred by purchase orders placed before 31 December will be allocated a carry-over equivalent to the amount of the commitment.

Where the balance of your unexpected and/or uncommitted capital equipment budget is presently in excess of the foregoing limits, you are urged to place purchase orders for your further needs now to help ensure that delivery is effected before 31 March 1989. The program will not provide a carry-over in relation to commitments by purchase orders placed later than 31 December other than in instances where a well-documented justification of circumstances merits exception. Application for exemption should be submitted to the attention of D. Grover, Office of the Comptroller. Final approval on capital equipment carry-overs remains with the Associate Vice-President (Facilities), J.B. McQuitty.

Unexpended funds in excess of the limiting factors will lapse into a Capital Equipment Contingency Account.

Student Awards Soar

According to its 1987-88 annual report, the Office of Student Awards coordinated the selection of some 4,700 undergraduate, graduate and post-doctoral awards totalling approximately \$11,400,000 of direct funding to U of A students.

In a recent report to President Myer Horowitz from Mark Tims, chairman of the Alberta Students Finance Board, it was revealed that 57,305 students were provided with need-based assistance amounting to \$237.3 million in 1987-88. This compares with assistance amounting to \$233.9 million which went to 56,872 students during 1986-87.*□

*This information was drawn from Rumor, Issue No. 40.

Talks

Philosophy

27 October, 3:30 p.m. Wayne Sumner, University of Toronto, "Welfare and Subjectivity." 4-29 Humanities Centre.

Science, Technology and Society

27 October, 4 p.m. Fraser Mustard, director, Canadian Institute for Advanced Research, Toronto, "Innovation and Canadian Prosperity: The Transforming Power of Science and Technology." 1-09 Business Building.

Entomology

27 October, 4 p.m. D. Myluk, "Chemically-Mediated Habitat Recognition in *Salidula Palipes* (Hemiptera: Saldidae)." TBW-1 Tory Breezeway.

3 November, 4 p.m. H.V. Danks, Biological Survey of Canada (Terrestrial Arthropods), Ottawa, "Intrinsic Elements in the Control of Insect Diapause." TBW-1 Tory Breezeway.
10 November, 4 p.m. K. Fry, "Development of the Lateral Palatal Brush in Larval *Aedes Aegypti* L." TBW-1 Tory Building.

Accounting

27 October, 5 p.m. Royston Greenwood, "The Negotiated Role of the National Office in a Professional Accounting Firm." 1-27 Business Building.

History

28 October, 3:05 p.m. David Johnson, "Origins of the War of the Thousand Days (1899-1902) in the Coffee Lands of Colombia." 2-58 Tory Building.
4 November, 3:05 p.m. Norma Landau, University of California-Davis, "Some Aspects of the Structure of the Legal System Governing the English Localities in the Seventeenth and Eighteenth Centuries." 2-58 Tory Building.

Zoology

28 October, 3:30 p.m. Tessa Gordon, "Functional Order/Anatomical Disorder: Nerve Regeneration and Muscle

Re-innervation." M-149 Biological Sciences Centre.
4 November, 3:30 p.m. Judie Bronstein, "Obligate Mutualism: Evolutionary Conflicts and Ecological Consequences." M-149 Biological Sciences Centre.

Rural Economy

31 October, 3:15 p.m. Les Lyster, director, Economic Services Division, Alberta Agriculture, "Some Issues in Farm Income Support." 519 General Services Building.

AHFMR and Genetics

31 October, 4 p.m. Alan P. Wolfe, Laboratory of Molecular Biology, National Institute of Health, Washington, D.C., "Transcription Complexes: Gene Regulation and Function." M-149 Biological Sciences Centre.

Political Science

1 November, 12:30 p.m. Issa Shivji, University of Dar es Salaam, Tanzania, "The Politics of Liberalization in Tanzania." 10-4 Tory Building.

CITL

1 November, 3 p.m. Douglas R. Wilson, "What Can Deans/Chairs Do to Encourage Good Teaching?" TBW-2 Tory Breezeway.

2 November, 3 p.m. Sandra Halme, "Media Relations." CW-005 Biological Sciences Centre.

3 November, 3 p.m. Mary Mahoney-Robson, "Manuscript to Book: The Publishing Process." 165 Education South.

8 November, 1:30 p.m. Dick Sobsey, "Practical Suggestions for Conference Planners." TBW-2 Tory Building.
10 November, 12:30 p.m. Bruce Miller, "The Withering of the Bloom: Lament for the University." TBW-2 Tory Breezeway.

East Asian Languages and Literatures

1 November, 3 p.m. Vancouver-born poet Kazuko Shiraishi, who has a large following in Japan, will read from her work. Co-sponsors: Women's Studies Program, Comparative Literature and the Consulate-General of Japan. 1-09 Business Building.

Law

1 November, 4:15 p.m. Issa Shivji, "Law and Human Rights in Southern and Eastern Africa." Faculty Lounge, Law Building.

Sociology

2 November, noon. Issa Shivji, "The State and Working People in Tanzania." 5-15 Tory Building.

Anatomy and Cell Biology

2 November, noon. Larry Guilbert, "Hematopoietic Cell Differentiation in Culture." 6-28 Medical Sciences Building.

Pharmacy and Pharmaceutical Sciences

2 November, 3 p.m. B.J. Wilkinson, Department of Microbiology, University of Illinois, Chicago, "Intrinsic Resistance

to Beta-lactams in *Staphylococci*." 4069 Dentistry-Pharmacy Centre.

Limnology and Fisheries

3 November, 12:30 p.m. Marlene Evans, National Hydrology Research Institute, Environment Canada, "Top Down Control of Zooplankton in Lake Michigan." M-149 Biological Sciences Centre.

10 November, 12:30 p.m. Patricia Chambers, "Role of Nutrients in the Control of Aquatic Macrophyte Growth in Prairie Rivers." M-149 Biological Sciences Centre.

Women's Studies Program

3 November, 3:30 p.m. Alice Jardine, Harvard University, "Notes for an Analysis." L-3 Humanities Centre.
4 November, 3 p.m. Alice Jardine, "In the Name of the Modern: Feminist Questions 'd'après gynesis'." L-3 Humanities Centre.
8 November, 3:30 p.m. Susan Sherwin, Dalhousie University, and Debra Shogan, "Feminist Ethics and Collaborative Writing." 5-20 Humanities Centre.

Botany

3 November, 4 p.m. Dave Layzell, Department of Biology, Queen's University, "The Role and Regulation of the Oxygen Diffusion Barrier in Legume Nodules." M-149 Biological Sciences Centre.

Religious Studies

3 November, 7:30 p.m. "The Ordination of Homosexuals—A Panel Discussion." Chairperson: Winnie Tomm. For: Rev. William F. Phipps, executive secretary, Alberta and North West Conference of the United Church of Canada. Against: Rev. Kees Hessels, retired Minister of the United Church of Canada. Commentator: Rev. Roy Neehall, Minister of the United Church of Canada and former general secretary, the Caribbean Conference of Churches. TL-B2 Tory Lecture Theatre.
8 November, 3:30 p.m. P. Shinnie, scholar of ancient African civilization, University of Calgary, "The Religious Notions and Beliefs in Early Sudan." 1-7 Humanities Centre.

English

4 November, noon. Germaine Warkentin, University of Toronto, "Sydney's Authors: Explorations in the Sydney Family Library Catalogue." L-3 Humanities Centre.

Interest Group in Perception

4 November, 2 p.m. Stanley Rule, "Binocular Brightness Interactions: On the Search for a Model." P-319N Biological Sciences Centre.

Political Science

7 November, noon. William Lafferty, professor, Political Science and Sociology, University of Oslo, "Recent Political Developments in a Social Democratic State—Norway." Co-sponsor: Canadian Institute for Nordic Studies. 10-4 Tory Building.

Slavic and East European Studies

7 November, 3 p.m. T.M.S. Priestly,

"The 'Ljubljana Spring:' Some Events in Slovenia, and the Slovene View of the Yugoslav Future." 436 Arts Building.

Medicine

8 November, 2 p.m. K.G. Wightman, Royal College of Physicians and Surgeons of Canada, "Does Dietary Protein Cause Kidney Stones?" 2F1.04 Mackenzie Health Sciences Centre.

Medicine, Science, Arts

Abraham Grünbaum, Andrew Mellon Professor of Philosophy, University of Pittsburgh, and Endowment Fund for the Future Distinguished Visitor, will deliver the following lectures:
8 November, 4 p.m. "The Psychoanalytic Enterprise in Scientific Perspective: An Assessment." L-1 Humanities Centre.
9 November, 4 p.m. "The Scientific Poverty of Freud's Case Histories: *The Rat Man* and *The Wolf Man*." L-1 Humanities Centre.
10 November, 4 p.m. "Critique of Karl Popper's 1983 (Postscript) Theory of Demarcation Between Science and Pseudo-Science." L-1 Humanities Centre.
14 November, 10:30 a.m. "The Placebo Concept in Medicine and Psychiatry." 2F1.04, Classroom D, Walter Mackenzie Health Sciences Centre.
15 November, 4 p.m. "Psychoanalysis and Religion: Is Religious Belief a Mass Psychosis?" L-1 Humanities Centre.
17 November, 4 p.m. "The Place of Secular Humanism in Current American Political Culture." L-1 Humanities Centre.
18 November, 2 p.m. "Why the Purported Problem of the Creation of the Universe is a Pseudo-Problem." V-121 Physics Building.

Forest Science

9 November, noon. Israel Jiang, "Term Breeding and Genetic Variation." 4-1 Mechanical Engineering Building.

Applied Mathematics Institute

9 November, 4 p.m. M. Brett, "Monte Carlo Simulations of Thin Film Growth." 657 CAB.

Botany and Forest Science

9 November, 4 p.m. F. Stuart Chapin III, Institute of Arctic Biology, University of Alaska, Fairbanks, "Controls Over Primary Succession in Alaska Forests." M-149 Biological Sciences Centre.

Philosophy

10 November, 3:30 p.m. Susan Sherwin, University of Toronto, "Feminist and Medical Ethics: Two Different Approaches to Contextual Ethics." 4-29 Humanities Centre.

The Arts

Exhibitions FAB Gallery

Until 30 October. "Staff Shows—Part 2." Exhibitions are by members of the staff in Art and Design.
1 to 13 November. "Contemporary Czechoslovak Prints."

Ring House Gallery

Until 27 November. "In/Sites: Recent Paintings by Johannes Zits."

Musée Héritage Museum

1 November to 4 December. "Art Nouveau in Fashion"—an exhibition of costumes from the University of Alberta Historic Costume collection. 459-1528. 5 St. Anne Street, St. Albert.

Studio Theatre

2 November, 6:15 p.m. Fortieth Anniversary Gala. Tickets \$20 per person (\$10 for recent graduates). 432-2271.
3 to 12 November. "The Imaginary Invalid." Tickets: \$5 and \$6. 432-2495.

Music

5 November, 8 p.m. Convocation Hall Memorial Organ Series—Bruce Wheatcroft. Admission: \$5 adults; \$3 student and seniors.
8 November, 8 p.m. Academy Strings Concert—Norman Nelson, director. Admission: \$5 adults; \$3 student and seniors.
9 November, 8 p.m. Visiting Artists—Duo-pianists Marina Stolyar and Janet Scott-Hoyt. Performances in Convocation Hall.

Edmonton Youth Orchestra

6 November, 3 p.m. Program to include works by Mozart, Dvorak and Kodaly. Admission: \$5 adults; \$3 students and seniors. 436-7932.

SUB Theatre

7 and 8 November, 8 p.m. Anna Wyman Dance Theatre.

Films

Germanic Languages

9 November, 7:30 p.m. "Fidelio." 141 Arts Building.

Sports

Hockey

4 and 5 November, 7 p.m. Golden Bears vs. British Columbia.

Basketball

6 November, 7:30 p.m. Golden Bears vs. Lewis Clarke State.

Positions

The University of Alberta is committed to the principle of equity in employment.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Academic

Electronic Data Processing (EDP) Auditor, Department of Internal Audit

Reporting to the Manager, Internal Audit, the EDP Auditor will be accountable for the planning, developing, organizing and conducting

of audits of the University's computerized financial and administrative systems. Responsibilities will include reviewing and analyzing existing controls in the computer environment and ascertaining the reliability of computer generated data used by management.

Applicants must have professional training in accounting supported by practical audit experience. Experience in computer system design and programming and a good knowledge of microcomputers is also required. Effective communication skills are essential.

This position requires a self-starter with investigative skills and analytical ability. Salary will be commensurate with qualifications and experience.

Deadline for applications is 25 November 1988. Interested applicants should apply to: Internal Audit Department, Attention: Fiona Chesney C.A., 234 Athabasca Hall, Edmonton, Alberta T6G 2E8.

Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Due to publication lead time and the fact that positions are filled on an ongoing basis, these vacancies cannot be guaranteed beyond 21 October. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Clerk Typist II (Part-time, Trust), Division of Neuroscience, (\$510-\$634) (prorated)
Clerk Stypist II (Part-time), Provincial Laboratory (Edmonton), (\$766-\$950)
Clerk Typist II (Term to 31 March 1989), Student Awards, (\$1,276-\$1,584)
Clerk Typist II, Career and Placement Services, (\$1,276-\$1,584)
Clerk Typist II, Faculty of Graduate Studies, (\$1,276-\$1,584)
Admissions Records Clerk, Office of the Registrar, (\$1,421-\$1,785)
Clerk Steno III, (Minimum two-year term), Faculty of Extension - Local Government Studies, (\$1,421-\$1,785)
Clerk Steno III (Trust), Biochemistry, (\$1,421-\$1,785)
Clerk Steno III, Computing Science, (\$1,421-\$1,785)
Clerk Steno III, Educational Psychology, (\$1,421-\$1,785)
Clerk Steno III, University Secretariat, (\$1,421-\$1,785)
Clerk Steno III, Education - Field Services, (\$1,421-\$1,785)
Clerk Steno III, Faculty of Extension - English Language Program, (\$1,421-\$1,785)
Clerk Steno III, Faculty of Law, (\$1,421-\$1,785)
Clerk Steno III, Philosophy, (\$1,421-\$1,785)
Clerk Steno III, Office of the Registrar, (\$1,421-\$1,785)
Clerk Steno III, (Part-time, Trust), Office of the Dean of Science, (\$1,421-\$1,785)
Clerk Typist III (Part-time, Trust), Lipid and Lipoprotein Research Group, (\$9.37/hr-\$11.77/hr)
Clerk Typist III (Trust), Medical Microbiology and Infectious Diseases, (\$1,421-\$1,785)
Secretary, Alumni Affairs, (\$1,584-\$2,023)
Departmental/Executive Secretary, Romance Languages, (\$1,785-\$2,297)
Editorial Assistant (Minimum two-year term), Faculty of Extension, Local Government Studies, (\$1,939-\$2,504)
Technician I (Trust), Medicine (Pulmonary Division), (\$1,643-\$2,109)
Technician I (Trust/Term), Medicine, (\$1,643-\$2,109)
Storeman II, Registrar's Office,

(\$1,785-\$2,297)
Biology Technologist I (Part-time, Trust), Genetics, (\$1,012-\$1,426) (prorated)
Laboratory Technologist I, Provincial Laboratory, (\$2,023-\$2,611)
Administrative Assistant I, Extension, (\$2,023-\$2,611)
Administrative Assistant I, Pension and Benefits Administration, (\$2,023-\$2,611)
Administrative Assistant I (Trust), Muttart Diabetes Research and Training Centre, (\$2,023-\$2,611)
Technician III, Geology, (\$2,109-\$2,730)
Nurse (Trust), Medicine, (\$2,109-\$2,730)
Programmer Analyst II, University Computing Systems, (\$2,297-\$2,976)
Programmer Analyst II, Registrar's Office, (\$2,397-\$3,113)
Programmer Analyst III, University Computing Systems, (\$2,851-\$3,723)

For vacant Library positions, telephone 432-3339.

Library Clerk I (Part-time), Education Library, (\$594-\$735) (prorated)
Library Assistant I, Cameron Library, (\$1,469-\$1,863)

Advertisements

Accommodations available

Victoria properties - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call collect (604) 592-3666, Lois Dutton, Wessex Realty, Victoria, B.C.
Rent - Large, cozy, basement suite. Walk to University. \$300/month, washer/dryer, utilities included. Quiet, non-smoking. 434-2926 (days), 436-5116 (evenings).
Sale - Revenue, Old Strathcona, \$89,900. Up/down duplex. Upper floor has three bedrooms. Hardwood floors, separate dining room. Eleanor Barr, Unity Real Estate Corp. 435-8774, 479-9401 pager.
Sale - 1,245' bungalow in mint condition. Hardwood floors, close to University. Drive by 10811 75 Ave. Eleanor, 479-9401. Unity Real Estate Corp.
Share - Mature woman, non-smoker, quiet, clean, health-oriented. Share two-bedroom condominium, full private bath, walk-in closet, five appliances, underground heated parking. 431-1046.
Sale - Windsor Park, \$139,500, three-bedroom bungalow. Hardwood floors, modern kitchen, new double garage. Ed Lastiwka, Royal LePage Realty, 437-7480, 437-4984.
Sale - Garneau. Impressive, five bedrooms, two storeys, 2,200 ft. Formal dining room, main floor den, hardwood throughout, huge country kitchen. Ed Lastiwka, Royal LePage Realty, 437-4984, 437-7480.
Sale - Pleasantview. Spacious, 1,440 ft. bungalow. Triple garage, 12,500 ft. south facing lot. \$96,500. Financing at 10.5 percent. Asking \$125,000. Ed Lastiwka, 437-7480, 437-4984. Royal LePage Realty.
Sale - Pleasantview "like new" three-bedroom bungalow. Huge 85x130 ft. lot. Quiet location. \$109,500. Ed Lastiwka, 437-7480, 437-4984, Royal LePage Realty.
Sale - Old Strathcona, excellent University location, charming, renovated, two storey. Bright, spacious rooms, high ceilings, remodelled kitchen, south backyard. Priced to sell. Jean MacKenzie, Spencer Realty, 436-5250.
Sale - South side, two bedrooms, older home, suite helps pay mortgage, backs ravine. 469-4197 evenings.
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Sale - Land. Hubbles Lake. 4.38 acres,
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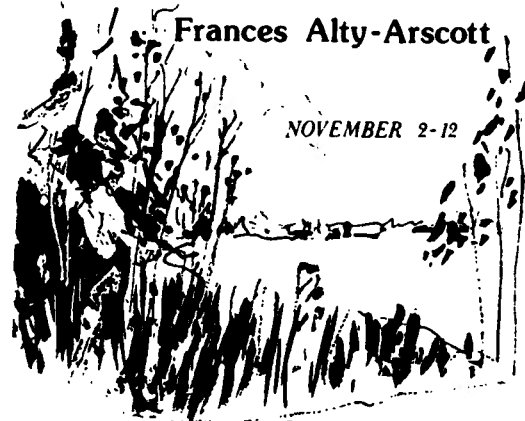


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